

# Master Programme ICT



**Full academic year**

**Programme in English for exchange students**

## **Aim**

You will develop a number of competences during this programme.

At the end you will be able to:

- think and work in a scientific way in an ICT environment
- handle complex ICT problems
- form a judgement in an uncertain context
- reflect on thought processes and the resulting ICT solutions to come to the development of more adequate solutions
- Communicate effectively about one's research and ICT problem solutions with colleagues and laymen

## **Contents**

The programme (30 ECTS) comprises:

- RTOS (Real Time Operating Systems)
- DSP I and DSP II (Digital Signal Processing)
- Image processing
- Machine learning

- Network security
- Databases
- Software engineering
- Computer graphics
- Operating Systems

### **Master thesis**

A personal master thesis (30 ECTS) is the second part of the ICT program. This master thesis runs during the whole academic year (mid September until end of June). The object of the master thesis is applied ICT related research. This can also be an application in the biomedical domain.

### **Course prerequisites**

- C programming
- General attitude or disposition toward a career in computer networking
- Basic PC skills
- Basic desktop navigation skills
- Basic Internet navigation skills
- CCNA level networking concepts and skills
- Familiarity with programming using an object-oriented programming language.
- Upper-intermediate level of spoken and written English.

### **Assessment**

- Individual assessment and project based group work
- ECTS grading scale

### **General structure**

- Master degree programme
- Along with Belgian students
- A full academic year

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